



Fiber Reinforced Polymer (FRP) Composites for Construction

Guest Editors:

Dr. Rui Guo

Prof. Dr. Bo Wang

Dr. Muye Yang

Dr. Weidong He

Prof. Dr. Chuntao Zhang

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Message from the Guest Editors

Dear Colleagues,

The development and application of new materials is one of the main driving forces of technical development in the field of civil engineering. Compared with traditional structural materials, a fiber-reinforced composite (FRP) has the advantages of being light weight, high strength, and corrosion resistant while also having designability. Over a very long period of time, fiber composite materials have experienced a history of trials, demonstrations, development and popularization. Now, they are widely used in existing structure reinforcements and various new structures, which can effectively improve structural performance and prolong structural life. In order to better promote the large-scale application of fiber-reinforced plastics in the field of engineering construction, the further exchange of the latest research results and the application progress of fiber-reinforced plastics, and the research and technology of fiber-reinforced plastics in the field of engineering construction, this Special Issue will solicit papers on the performance of FRP materials, the application of FRPs in new structures, and the application of FRPs in structural reinforcement.



Editor-in-Chief

Prof. Dr. David Arditi

Construction Engineering and
Management Program,
Department of Civil,
Architectural, and Environmental
Engineering, Illinois Institute of
Technology, 3201 South
Dearborn Street, Chicago, IL
60616, USA

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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Buildings Editorial Office
MDPI, St. Alban-Anlage 66
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